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**United States Patent** [19]**Enokido et al.**[11] **Patent Number:** **5,461,672**[45] **Date of Patent:** **Oct. 24, 1995**[54] **PORTABLE RADIO TELEPHONE HAVING A SLIDABLE SPEAKER UNIT**[75] Inventors: **Kazuhiro Enokido**, Kanagawa; **Akio Suzuki**, Tokyo; **Shigeru Iwasaki**, Kanagawa, all of Japan[73] Assignee: **Sony Corporation**, Tokyo, Japan[21] Appl. No.: **92,213**[22] Filed: **Jul. 15, 1993**[30] **Foreign Application Priority Data**

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[51] **Int. Cl.<sup>6</sup>** ..... **H04M 1/00**[52] **U.S. Cl.** ..... **379/433; 379/434**[58] **Field of Search** ..... **379/433, 428, 379/58, 434; 455/89, 90**[56] **References Cited****U.S. PATENT DOCUMENTS**4,272,655 6/1981 MacKenzie et al. .... 379/433  
5,278,993 1/1994 Reiff et al. .... 379/433**FOREIGN PATENT DOCUMENTS**

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A portable radiotelephone transmits and receives voice information signals to and from a telephone base station by radio. The radio telephone includes a telephone main body having a key pad section mounted on its outer surface and containing a microphone unit. A speaker housing containing a speaker unit is slidably mounted on the telephone main body. A switching unit located between the telephone body and the speaker housing establishes electrical connection and disconnection between the telephone body and the speaker housing depending upon their relative positions as changed by sliding the speaker unit. Electrical connection is established when the speaker housing is moved in a direction away from the microphone unit located on the telephone main body.

**8 Claims, 13 Drawing Sheets**